

Modelling, Robustness and Sensitivity Reduction in Control Systems

Ruth F. Curtain

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Modelling Robustness And Sensitivity Reduction In Control Systems

A. Cuyt



Modelling Robustness And Sensitivity Reduction In Control Systems:

Model Reduction for Control System Design Goro Obinata, Brian D.O. Anderson, 2012-12-06 Modern methods of filter design and controller design often yield systems of very high order posing a problem for their implementation Over the past two decades or so sophisticated methods have been developed to achieve simplification of filters and controllers Such methods often come with easy to use error bounds and in the case of controller simplification methods such error bounds will usually be related to closed loop properties This book is the first comprehensive treatment of approximation methods for filters and controllers It is fully up to date and it is authored by two leading researchers who have personally contributed to the development of some of the methods Balanced truncation Hankel norm reduction multiplicative reduction weighted methods and coprime factorization methods are all discussed The book is amply illustrated with examples and will equip practising control engineers and graduates for intelligent use of commercial software modules for model and controller reduction

Modelling, Robustness and Sensitivity Reduction in Control Systems Ruth F. Curtain, 2012-11-05 Historically one of the basic issues in control systems design has been robustness the ability of a controlled plant to withstand variations in or lack of knowledge of its dynamics Even if the dynamics of a system are accurately known for purposes of implementation it is often desirable to design a control system based on a simplified model Consequently it is essential to be able to guarantee a reasonable performance not only for the nominal plant but also for its neighbouring perturbations this is the issue of robustness Since the beginning of this decade major advances have been made in this area notably using the H_∞ approach this term is meant to cover the solution of sensitivity reduction approximation and model reduction robustness and related control design problems using the mathematics of Hardy spaces and related areas in Harmonic Analysis This book contains the proceedings of the NATO Advanced Research Workshop on Modelling Robustness and Sensitivity Reduction in Control Systems which was held at the University of Groningen December 1986 Its aim was to explore the development of H_∞ design techniques and its ramifications in Systems Theory in a unified and systematic way with the emphasis on recent advances and future directions in this fast developing area In particular the following inter related aspects were addressed H_∞ mathematical foundations model approximation and robustness in control design optimal sensitivity reduction modelling and system identification and signal processing

Modelling, Robustness and Sensitivity Reduction in Control Systems Ruth F. Curtain, 2014-01-15

Control and Dynamic Systems V50: Robust Control System Techniques and Applications C.T. Leonides, 2012-12-02 Control and Dynamic Systems Advances in Theory and Applications Volume 50 Robust Control System Techniques and Applications Part 1 of 2 is a two volume sequence devoted to the issues and application of robust control systems techniques This volume is composed of 10 chapters and begins with a presentation of the important techniques for dealing with conflicting design objectives in control systems The subsequent chapters describe the robustness techniques of systems using differential difference equations the design of a wide class of robust

nonlinear systems the techniques for dealing with the problems resulting from the use of observers in robust systems design and the effective techniques for the robust control on non linear time varying of tracking control systems with uncertainties These topics are followed by discussions of the effective techniques for the robust control on non linear time varying of tracking control systems with uncertainties and for incorporating adaptive control techniques into a non adaptive robust control design Other chapters present techniques for achieving exponential and robust stability for a rather general class of nonlinear systems techniques in modeling uncertain dynamics for robust control systems design and techniques for the optimal synthesis of these systems The last chapters provide a generalized eigenproblem solution for both singular and nonsingular system cases These chapters also look into the stability robustness design for discrete time systems This book will be of value to process and systems engineers designers and researchers

Signal Processing and Systems Theory

Charles K. Chui, Guanrong Chen, 2012-12-06 Signal Processing and Systems Theory is concerned with the study of H optimization for digital signal processing and discrete time control systems The first three chapters present the basic theory and standard methods in digital filtering and systems from the frequency domain approach followed by a discussion of the general theory of approximation in Hardy spaces AAK theory is introduced first for finite rank operators and then more generally before being extended to the multi input multi output setting This mathematically rigorous book is self contained and suitable for self study The advanced mathematical results derived here are applicable to digital control systems and digital filtering

Control and Dynamic Systems V51: Robust Control System Techniques and Applications

C.T. Leonides, 2012-12-02 Control and Dynamic Systems Advances in Theory and Application Volume 51 Robust Control System Techniques and Applications Part 2 of 2 discusses system robustness techniques This volume presents a comprehensive treatment of robust system techniques in nonlinear linear and multilinear interval systems It also covers techniques for dealing with system disturbances system modeling approximations and parameter uncertainties This volume ends by reviewing robustness techniques for systems with structured state space uncertainty This volume will be of great use as a reference source for mechanical and electrical engineers

Discrete H_∞ Optimization

Charles K. Chui, Guanrong Chen, 2012-12-06 Discrete H Optimization is concerned with the study of H optimization for digital signal processing and discrete time control systems The first three chapters present the basic theory and standard methods in digital filtering and systems from the frequency domain approach followed by a discussion of the general theory of approximation in Hardy spaces AAK theory is introduced first for finite rank operators and then more generally before being extended to the multi input multi output setting This mathematically rigorous book is self contained and suitable for self study The advanced mathematical results derived here are applicable to digital control systems and digital filtering

Robust Industrial Control Systems

Michael J. Grimble, 2006-05-01 Robust Industrial Control Systems Optimal Design Approach for Polynomial Systems presents a comprehensive introduction to the use of frequency domain and polynomial system design techniques for

a range of industrial control and signal processing applications The solution of stochastic and robust optimal control problems is considered building up from single input problems and gradually developing the results for multivariable design of the later chapters In addition to cataloguing many of the results in polynomial systems needed to calculate industrial controllers and filters basic design procedures are also introduced which enable cost functions and system descriptions to be specified in order to satisfy industrial requirements Providing a range of solutions to control and signal processing problems this book Presents a comprehensive introduction to the polynomial systems approach for the solution of H_2 and H_∞ optimal control problems Develops robust control design procedures using frequency domain methods Demonstrates design examples for gas turbines marine systems metal processing flight control wind turbines process control and manufacturing systems Includes the analysis of multi degrees of freedom controllers and the computation of restricted structure controllers that are simple to implement Considers time varying control and signal processing problems Addresses the control of non linear processes using both multiple model concepts and new optimal control solutions Robust Industrial Control Systems Optimal Design Approach for Polynomial Systems is essential reading for professional engineers requiring an introduction to optimal control theory and insights into its use in the design of real industrial processes Students and researchers in the field will also find it an excellent reference tool Uncertain Models and Robust Control Alexander Weinmann, 2012-12-06

Control systems particularly designed to manage uncertainties are called robust control system Choosing appropriate design methods the influence of uncertainties on the closed loop behaviour can be reduced to a large extent Most of the important areas of robust control are covered The aim of the book is to provide an introduction to the theory and methods of robust control system design to present a coherent body of knowledge to clarify and unify presentation of significant derivations and proofs The book contains a thorough treatment of important material of uncertainties and robust control which is scattered throughout the literature **Automatic Control 1990** Ü Jaaksoo, 2014-05-23 This volume provides a general overview on

the state of the art and future developments in automation and control The application of systems and control in all areas is covered from the social and cultural effects of control to control in mineral and metal processing This volume will be an invaluable source of information to all those interested in the areas of automation and control **Dynamics and Feedback:**

A Unified Framework for Control System Design, Modeling, and Implementation William E Clark, 2025-08-18

Dynamics and Feedback A Unified Framework for Control System Design Modeling and Implementation presents a coherent and rigorous introduction to the principles that govern dynamic systems and their regulation Beginning with system classification modeling paradigms and the fundamentals of feedback the book leads readers through differential and difference equation representations block diagram algebra and state space formulations that unify continuous and discrete time perspectives Emphasis on clear mathematical foundations ensures a solid grasp of stability performance and sensitivity before moving to practical design tools Building on these foundations the text systematically develops both classical and

modern design methods time and frequency domain analyses root locus and Nyquist techniques PID tuning and compensator synthesis as well as state space concepts of controllability observability optimal control and state estimation Throughout the narrative bridges theory and practice showing how to linearize nonlinear dynamics identify models from data and manage multivariable interactions and robustness concerns in high order systems Worked examples and problem solving strategies make advanced topics accessible while preparing readers for real world implementation challenges Reflecting contemporary advances the final sections treat digital and discrete time control nonlinear and adaptive architectures model predictive and distributed control and the integration of AI and machine learning into cyber physical and autonomous systems Special attention is given to fault tolerance robustness and the practicalities of implementation from sensor actuator constraints to software hardware co design Designed for students researchers and practicing engineers this unified framework equips readers to design analyze and implement control systems across a wide range of emerging applications

Robotic Systems for Handling and Assembly Daniel Schütz, Friedrich Wahl, 2010-11-30 Although parallel robots are known to offer many advantages with respect to accuracy dynamics and stiffness major breakthroughs in industrial applications have not yet taken place This is due to a knowledge gap preventing fast and precise execution of industrial handling and assembly tasks This book focuses on the design modeling and control of innovative parallel structures as well as the integration of novel machine elements Special attention is paid to the integration of active components into lightweight links and passive joints In addition new control concepts are introduced to minimize structural vibrations Although the optimization of robot systems itself allows a reduction of cycle times these can be further decreased by improved path planning robot programming and automated assembly planning concepts described by 25 contributions within this book The content of this volume is subdivided into four main parts dealing with Modeling and Design System Implementation Control and Programming as well as Adaptronics and Components This book is aimed at researchers and postgraduates working in the field of parallel robots as well as practicing engineers dealing with industrial robot development and robotic applications

Minimax Approaches to Robust Model Predictive Control Johan Löfberg, 2003-04-11 Controlling a system with control and state constraints is one of the most important problems in control theory but also one of the most challenging Another important but just as demanding topic is robustness against uncertainties in a controlled system One of the most successful approaches both in theory and practice to control constrained systems is model predictive control MPC The basic idea in MPC is to repeatedly solve optimization problems on line to find an optimal input to the controlled system In recent years much effort has been spent to incorporate the robustness problem into this framework The main part of the thesis revolves around minimax formulations of MPC for uncertain constrained linear discrete time systems A minimax strategy in MPC means that worst case performance with respect to uncertainties is optimized Unfortunately many minimax MPC formulations yield intractable optimization problems with exponential complexity Minimax algorithms for a number of uncertainty models are derived in

the thesis These include systems with bounded external additive disturbances systems with uncertain gain and systems described with linear fractional transformations The central theme in the different algorithms is semidefinite relaxations This means that the minimax problems are written as uncertain semidefinite programs and then conservatively approximated using robust optimization theory The result is an optimization problem with polynomial complexity The use of semidefinite relaxations enables a framework that allows extensions of the basic algorithms such as joint minimax control and estimation and approximation of closed loop minimax MPC using a convex programming framework Additional topics include development of an efficient optimization algorithm to solve the resulting semidefinite programs and connections between deterministic minimax MPC and stochastic risk sensitive control The remaining part of the thesis is devoted to stability issues in MPC for continuous time nonlinear unconstrained systems While stability of MPC for unconstrained linear systems essentially is solved with the linear quadratic controller no such simple solution exists in the nonlinear case It is shown how tools from modern nonlinear control theory can be used to synthesize finite horizon MPC controllers with guaranteed stability and more importantly how some of the technical assumptions in the literature can be dispensed with by using a slightly more complex controller

Control Systems Engineering and Automation Dr. R. Ramadevi, Control Systems Engineering and Automation provides a comprehensive exploration of the principles analysis and design of control systems with a focus on automation technologies This book covers classical and modern control theories including feedback stability system modeling time and frequency domain analysis and digital control techniques It bridges theoretical concepts with practical applications in industrial automation robotics and process control Designed for engineering students and professionals the book includes real world case studies simulation examples and problem solving approaches to enhance understanding Emphasizing the role of automation in modern engineering it serves as a vital resource for learning and innovation in control systems

Nonlinear Numerical Methods and Rational Approximation II A. Cuyt, 2012-12-06 These are the proceedings of the international conference on Nonlinear numerical methods and Rational approximation II organised by Annie Cuyt at the University of Antwerp Belgium 05 11 September 1993 It was held for the third time in Antwerp at the conference center of UIA after successful meetings in 1979 and 1987 and an almost yearly tradition since the early 70 s The following figures illustrate the growing number of participants and their geographical dissemination In 1993 the Belgian scientific committee consisted of A Bultheel Leuven A Cuyt Antwerp J Meinguet Louvain la Neuve and J P Thiran Namur The conference focused on the use of rational functions in different fields of Numerical Analysis The invited speakers discussed Orthogonal polynomials D S Lubinsky Rational interpolation M Gutknecht Rational approximation E B Saff Padé approximation A Gonchar and Continued fractions W B Jones In contributed talks multivariate and multidimensional problems applications and implementations of each main topic were considered To each of the five main topics a separate conference day was devoted and a separate proceedings chapter compiled accordingly In this way the proceedings reflect the

organisation of the talks at the conference Nonlinear numerical methods and rational approximation may be a narrow field for the outside world but it provides a vast playground for the chosen ones It can fascinate specialists from Moscow to South Africa from Boulder in Colorado and from sunny Florida to Zurich in Switzerland

Contributions to Operator Theory and its Applications I. Gohberg, J.W. Helton, Leiba Rodman, 2012-12-06

Microlocal Analysis and Applications Lamberto Cattabriga, Luigi Rodino, 2006-11-14

CONTENTS J M Bony Analyse microlocale des equations aux derivees partielles non lineaires G G Grubb Parabolic pseudo differential boundary problems and applications L H Rmander Quadratic hyperbolic operators H Komatsu Microlocal analysis in Gevrey classes and in complex domains J Sj strand Microlocal analysis for the periodic magnetic Schr dinger equation and related questions

Adaptive and Robust Active Vibration Control Ioan Doré Landau, Tudor-Bogdan Airimioaie, Abraham Castellanos-Silva, Aurelian Constantinescu, 2016-09-15

This book approaches the design of active vibration control systems from the perspective of today's ideas of computer control It formulates the various design problems encountered in the active management of vibration as control problems and searches for the most appropriate tools to solve them The experimental validation of the solutions proposed on relevant tests benches is also addressed To promote the widespread acceptance of these techniques the presentation eliminates unnecessary theoretical developments which can be found elsewhere and focuses on algorithms and their use The solutions proposed cannot be fully understood and creatively exploited without a clear understanding of the basic concepts and methods so these are considered in depth The focus is on enhancing motivations algorithm presentation and experimental evaluation MATLAB routines Simulink diagrams and bench test data are available for download and encourage easy assimilation of the experimental and exemplary material Three major problems are addressed in the book active damping to improve the performance of passive absorbers adaptive feedback attenuation of single and multiple tonal vibrations and feedforward and feedback attenuation of broad band vibrations Adaptive and Robust Active Vibration Control will interest practising engineers and help them to acquire new concepts and techniques with good practical validation It can be used as the basis for a course for graduate students in mechanical mechatronics industrial electronics aerospace and naval engineering Readers working in active noise control will also discover techniques with a high degree of cross over potential for use in their field

Methods of Nonconvex Analysis Arrigo Cellina, 2006-11-14

Linear Algebra for Large Scale and Real-Time Applications M.S. Moonen, Gene H. Golub, B.L. de Moor, 2013-11-09

Proceedings of the NATO Advanced Study Institute Leuven Belgium August 3 14 1992

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